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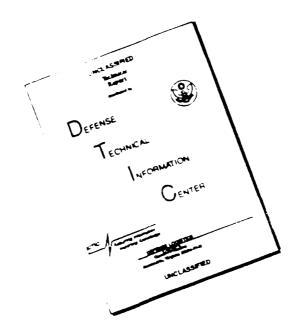
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INTRODUCTION

The Research Proposal Quarterly Status Report is published in March. June. September, and December by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR in the previous six months along with the action taken (Initiated, Declined or Withdrawn) on each report.

The report is divided into two parts. The Institution index lists proposals alphabetically by institution. is followed by a more detailed listing by Directorate, and by Program Manger within the Directorate.

PURPOSE

the action taken on these proposals. Readers must keep in mind that declined proposals should not necessarily be This report is designed to inform other Government sponsoring agencies of the proposals received by the AFOSR and considered as scientifically unacceptable; many declinations result from a lack of funds or as a result of special programmatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. The AFOSR is organized under the Air Force Materiel Command, DCS/Science

originality, significance to science, the qualification of the principal investigators, and the reasonableness of Selection is on the basis of scientific potential for improving Air Force operational capabilities, Research is selected for support from proposals received in response to the Broad Agency Announcement from AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. scientists investigating problems involving the search for new knowledge and the expansion of scientific the proposed budget

KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, (e.d., college/university, company) at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort. - R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding

- 0 = DECLINEO indicates the proposal has been reviewed but will not be funded by

- W=WITHORAWN indicates that the proposal submitted was removed from further - BLANK SPACE = indicates the proposal is being reviewed.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the

consideration at the proposers request.

<code>PROPOSAL</code> # - An AFOSR Directorate assigned control number to uniquely identify the research technical evaluation of the proposal.

INITIATE - The proposal has been recommended to the AFOSR Directorate of Contracts for the proposal

STARI DATE - The recommended date for commencement of the research.

amount and duration.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

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Univ of Kansas, Center for Research	Dreschhoff	Gisela	∢	93-NL-362		RADOSKI
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PART 2

PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH Directorate of Aerospace Sciences
REPORT DATE 10/08/93

TITLE (CONT.) INVE	INVESTIGATOR	,	TYPE/MONTHS RECEIVED AMOUNT	STATUS Program manager Proposal #	INITIATE Start date Tot ant
AMENTALS OF DANAGE MECHANICS IN NIA1 Mperature applictions st. of Standards & Technology	COMPOSITES	12e-jer	N 12 12/07/93 \$162,000	JONES 93-NA-347	
DEVELOPEMNT OF NUMERICAL CONSTUTUTIVE MODELS FOR CAR COMPOSITES Texas Engineering Experiment Center	FOR CARBON-CARSON Whitcomb	, rh	N 12/07/93 \$112,670	JONES 93-NA-348	
FAILURE BEHAVIOR OF METAL MATRIX COMPOSITES UNDER B)	UNDER BIAXIAL LOADING Shockey Do	Consid	N 24 12/07/93 \$99,992	JONES 93-NA-349	
ADDITIVE TURBULENT DECOMPOSITION OF THE INCOMPRESSIBL NAVIER-STOKES EQUATIONS Univ of Kentucky Research Foundation	# CO TO	somer	R 24 13/07/93 \$125,627	SAKELL 93-na-350	
LARGE-EDDY SIMULATION OF TRANSITIONAL AND TURBULENT FLOW OVER Transo ic airfoil Medonneil Douglas Research Lab	4	Lìnda	R 13/07/93 \$127,900	A SAKELL 93-NA-351	\$27,900 01/12/93 \$127,900
CONFORMABLE M3 MICROSYSTEMS FOR AEROJYNAMIC CONTROL Univ of California, Los Angeles		Chih-Ming	4 14/07/93 \$1,431,702	A MCMICHAEL 93-NA-352	\$160,081 15/10/93 \$1,591,783
33RAT3RY IPROVEME	T Lebeller		12 15/07/93 \$68,691	A JONES 93-NA-353	\$68.691 30/09/93 \$69.691
NT OF ADVANCED THERMAL AND EL	PROPULSION	3 a j n e e	N 36 19/67/93 \$431,656	A BIRKAN 93-NA-354	\$431,650 30/09/93 \$431,655
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REPORT DATE 10/38/93	PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH Directorate of Aerospace Sciences	30 SEP 93) RCH		PAGE 2	
TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED ANGUNT		STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
NEURD-CONTROLLERS FOR MOTION CONTROL SYSTEMS Mechanical Flexibility Univ of Illinois	OL SYSTEMS INVOLVING DISTRIBUTED Cotinkunt Sabri	N 24 20/07/93 \$107,445	3	93-NA-356	
(HMI9293) ENHANCEMENT OF DIGITAL DATA ACQUIS SYSTEM OF IIT/FDRC Illinois Institute of Technology	DATA ACQUISITION & PROCESSING Williams David	N 20/07/93 10 10	NCH	A ICHAEL 93-na-357	\$155,939 30/09/93 \$155,939
(ARPA) MICRO-OPTO-NECHANICAL *STEMS Case Western Reserve University	XS Xebras Xebras	N 48 21/07/93 -an \$1,206,088	NON .	A ICHAEL 93-na-358	\$120,609 15/10/93 \$1,206,088
(SEPSCOR) ACQUISITION OF MICRODRILLING/MICRO) Louisiana Tech University	MILLING/EDM EQUIPMENT Friedrich Crai	N 12 21/07/93 21/07/93 19 \$111,000	MCM	A ICHAEL 93-MA-359	\$1111,000 30/09/93 \$111,000
WORKSHOP ON INHERENT NONSTEADINESS OF CHINCATO Rufdue University	OF COMPRESSORS AND TURBINES Murthy S N	N C6 27/07/93 8 \$15,000	A X	A T 93-NA-360	\$15,000 01/10/93 \$15,000
A RESEARCH PROGRAM FOR THE MECHANICS, MATERIAL FRACTURE (MMAPF) Carnegie-Mellon University	CS, MATERIALS AND PHYSICS OF Sinclair G B	N 28/07/93 5349,102	200	ES 93-NA-361	
CRACK PROPAGATION BY ELEMENTHREE Horthwestern University	GALERIKIN METHODS 30lytschko Ted	N 26/07/93 5291 ₆ 976	207	A ES 93-NA-362	\$93,443 01/01/94 \$291,976
RECOVERY OF FROZEY FLOW LOSSESIN ARGJETS Ohio State Univ Research Foundation	iRCJETS in Subrasaniem V	N 24 28/07/93 \$173,975	8 I R	A Kan 53-na-363	\$84,260 01/10/93 \$173,875
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PAGE 3	STATUS Program Manager Proposal #	FANT 93-NA-365	FANT	93-NA-366	FANT 93-NA-367	FANT 92-WA-368		FANT 93-NA-369	JONES 93-NA-370	BIRKAN 93-NA-371	A FANT 93-NA-372	40 93~NA-373
	TYPE/HONTHS RECEIVED AMOUNT	N 36 28/07/93 \$195,482	N 36 28/07/93	\$209,130	N 35 23/07/93 \$129,443	N 36 23/07/93		N 12 29/07/93 \$148,791	N 24 30/07/93 \$130,101	N 36 04/08/93 8+45,471	N 05/06/93 535,000	14 09/35/93 1316,565
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PAGE	STATUS Program Manager Proposal #	A LEWIS 93-NA-383	A SAKELL 93-NA-384	ACMICHAEL 93-NA-385	A JONES 93-NA-387	A TISHKOFF 93-NA-388	A TISHKOFF 93-NA-389	JONES 93-NA-390	JONES 93-NA-391	JONE S 93-NA-392
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PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF AEROSPACE SCIENCES

TITLE (CONT.) INSTITUTION INVESTIGATOR	· ·	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MAMAGER PROPOSAL &	INITIATE START DATE TOT AMT
ON A RATIONAL ANALYSIS METHODOLOGY FOR THREE-DIMENSIONAL BRAIDED Fibrous composites Drexel University	RAIDED Albert	N 24 03/09/93 \$111,159	JONES 93-NA-393	
EVALUATION OF THE IONIC MECHANISM OF SOOT FORMATION Aerochem Research Laboratories Inc	Ξ.	R 08/09/93 \$218,434	A TISHKOFF 93-NA-394	\$55,417 15/12/93 \$219,434
RANDOM RESPONSE SUPRESSION AND SOUIC FATIGUE DESIGN OF COMPOSITE Panels at elevated temperatures using a shape memory alloy old Dominion University	POSITE Chuh	N 36 08/09/93 \$231,177	NU 93-NA-395	
DEVELOPHENT & APPLICATION OF NEW ALGORITHMS FOR THE SIMULATION VISCOUS COMPRESSIBLE FLOWS WITH MOVING BODIES Beorge Mason University	ITION OF Raineld	78 36 36 36 36 36 36 36 36 36 36 36 36 36	A Sakell 93-na-396	\$147,383 01/01/94 \$420,564
ACTUATOR-SENSOR-CONTROLLER OPTIMIZATION FOR INTELLIGENT DYNAMIC Structures Massachusetts Institute of Technology Cramley	rnamic Edward	N 24 09/09/93 \$100,054	VU 93-NA-397	
EXPERIMENTAL STUDY OF FACTORS CONTROLLING INSTABILITY OF FRICTIONAL MATERIAL Johns Hopkins University	Poul	N 13/09/93 \$197,178	A LEUIS 93-NA-398	\$69,408 01/10/93 \$205,661
STA?ILITY OF SUPERSONIC FLOW OVER AN ELLIPTIC CONE Oynoflow inc	Thorwald	N 06 13/09/93 \$36,199	SAKELL 93-NA-399	
A FIBLIE ELEMENT AIGH RESOLUTION ENTROPY WEAK STATEMENT FOR AYPENSOLIC GERCTHERMODYNAMICS Univ of Tennesses	Joe Joe	N 36 13/09/93 \$468.021	SAKELL 93-na-400	
FILM COCLING BY A PULSATING WALL DET John of Arizona	Israel	N 26/09/93 5469,019	A MCMICHAEL 93-NA-401	\$170,636 01/01/94 \$469,018

REPORT DATE 13/08/93 PROPOSAL STA AIR FORCE OF SIRECTORATE	ITUS REPORT (1 JUL) FICE OF SCIENTIFIC OF AEROSPACE SCIEN	33 - 30 SEP 93) RESEARCH Jes		PAGE	
TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
THRUST VECTOR CONTROL OF RECTANGULAR JETS USING	G COUNTERFLOW		N 12	A	\$51,122
Univ of Minnesota	Strykomski	Paul	\$51,122	93-NA-402	\$51,122
CONTROL IN COMPOSITE LAMINATES USING	PIEZOELECTRIC		N 36	,	
SENSORE AND ACTUATORS Univ of Missouri	cestia	Victor	\$191,109	93-NA-403	
MONITORING DAMAGE EVOLUTION WITH NOVEL DAMAGE	METRICS		N 36	S	
Univ of Californias Los Angeles	Careen	Q=19	\$209,540	93-NA-604	
PRJBABILISTIC FRACTURE MECHANICS FOR AEROSTRUC	RUCTURES		N 36	V H Z Q T	
Vanderuilt University	Cruse	Thomas	\$291,844	93-NA-405	
LARSE EDDY & UNSTRUCTURED GRID METHODS FOR HEA APPLICATIONS IN PROPULSION SYTTOMS I out of Science and fech	HEAT TRANSFER Platcher	Richard	N 21/39/93 \$2,300,101	FANT 93-NA-406	
RECEPTIVITY IN COMPRESSIBLE FLOW JET CONTROL			N 24	A	\$130,362
McDonnell Bouglas Aerospace	Parekh	David	\$277,772	93-NA-407	\$277,772
HISH STRENGTH CELLULAR SOLIDS			N 36 23/09/93	SURCE	
Univ of Iosa	Lakes	Roderick	\$238,940	93-XA-408	
HIC?SCRACKING OF CERAMIC MATRIX COMPOSITES AT	ELEVATED TEMPERATURE		N 36	70 X G	
North Carolina State University	Year	C ララーに コリ	\$315,435	93-NA-409	
APPLICATION OF FRACTURE MECHANICS TECHNIQUES.	S TO ASING AIRCRAFT		N 24	2 2 0	
American Majority Engineering	947	James	000 60015	014-41-86	

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PAGE	TYPE/MONTHS STATUS RECEIVED PROGRAM MANAGER ANOUNT PROPOSAL #	N 36 27/09/93 MCMICHAEL \$189,790 93-NA-411	R 24 27/09/93 MCMICHAEL \$320,893 93-NA-412	N 24 27/09/93 MCMICHAEL \$131,000 93-NA-413	N 36 27/09/93 SAKELL \$382,824 93-NA-414	N 24 27/09/93 MCMICHAEL \$101,865 93-NA-415	27/09/93 LEWIS \$265,134 93-NA-416	N 12 28/09/93 LEWIS \$10,300 93-NA-417
PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93) AIR FORCE UFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF AEROSPACE SCIENCES	INVESTIGATOR	Fasel Hermann	TS OF PRESSURE GRADIENT AND Hygnanski israel	JET FLOW CCNTROL Kørschen Edward	METHOD APPLIED TO UNSTEADY, Eberjardt O Scott	EM FOR THE STUDY AND CONTROL OF Nadati Khalil	ION OF HYDROXYLATED AROMATIC Ster & ITS EFFECT ON FATE to Univ	CALIBRATION TEST THE SURVIVABILITY ONS IN SATURATED SOILS RO
REPORT DATE 10/08/93	TITLE (CONT.) INSTITUTION	NUMERICAL SIMULATIONS OF WALL JETS Univ of Arizona	THE FORCEO TURBULENT WALL-JET EFFECTS OF PRESSURE GRADIENT AND Curvature Univ of Arizona	RECEPTIVITY THEORY IN COMPRESSIBLE JET FLOW CCNTROL Univ of Arizona	AN UNSTRUCTURED, CONJUGATE GRADIENT HYPERSONIC, REACTING FLOW PROBLEMS Univ of Washington	A MICROACTUATOR/MICROSENSOR SYSTEM SCREECH IN HIGH SPPED JETS Univ of Michigan	REVERSIBLE & IMREVERSIBLE SORPTION HYDPOCARBONS TO SOIL ORGANIC MAITER Virithla Polytechnic Inst & State?	CENTRIFUGE MODELING OF HILL AFB CALIBRATION TEST THE OF STRUCTURES ON PILE FOUNDATIONS IN SATURATED SOILS univ of Colorado

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PROPOSAL STATUS REPORT (I JUL 93 - 30 SEP 93) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES	
REPORT DATE 10/03/93	

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TITLE TITLE (CONT.) THATITUITON	TTPE/ RECE	TYPE/MONTHS RECEIVED Amount	STATUS Program manager Proposal #	INITIATE Start date tot ant
POLYMER-SEMICONDUCTOR OPTJ-ELECTRONICS: BASIC TUDIES thern California	N 01/0	8513,473	LEE 93-NC-356	
STATAESIS AND PROCESSING OF NEW SECOND ORDER WONLINEAR OPTICAL Materials Univ of Southern California	N 02/C 13fry 866	36 02/07/93 \$664,577	16E 93-NC-357	
DEVELOPMENT AND UTILIZATION OF DEVICE QUALITY NONLINEAR OPTICAL MATERIALS Univ of Southern California	N 02/ 13/ 13/61	N 36 02/07/93 \$1,018,932	LEE 93-NC-358	
THEORETICAL STUDIES OF ION-MOLECULE REACTIONS Cast Wostern Reserve University	N 077/ Stephen \$22	N 36 07/07/93 \$223,365	BERMAN 93-NC-359	
INFLUENCE OF COMPOSITION, CHAIN ARCHITECTURE AND PROCESSING ON POLINER STRUCTURE AND PROPERTIES Assochusetts Institute of Technology	N 08/ Eduin 873	N 36 08/07/93 \$732,169	1.E.E 93-NC-360	
ELEMENTARY CHEMICAL REACTION DYNAMICS OF INITIATION 35 DETONATION IN SHERGETIC MATERIALS: THEORY AND EXPERIMENT ADKALLAND	N N N N N N N N N N N N N N N N N N N	36 09/01/93 6331.474	BENNAN 93-NC-361	
MICROSTRUCTURE AND DYNAMICS IN GLASSY FAST ION CONDUCTORS Indiano University/Bryan dall	N 137 Josef S42	N 36 13/07/93 \$423,220	WILKES 93-NC-362	
CHKIJZJJ) CERAMICS AND OPTICS LABORATORY EQUIPMENT IMPROVEMENTS Univ of New Mortico	N 141 Martin 634	12 14/07/53 8345,745	A WAPD 93-KC-363	\$165.445 3C/03/93 \$166.445
(4519293) MECHANICAL BEHAVIOR INVESTIGATION OF ACVANCED CERRHIC Matrix Coffosity Materials Worth Ceroline agt state University	N 14. Jagannathen 855	14/07/53 \$575,115	4 NAFD 93-NC-364	1139,410 30/05/93 8139,410

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PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH Directorate of Chemical and atmospheric sciences

TITLE (CONT.) INSTITUTION	INVESTIGATOR		IYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal 8	INITIATE START DATE TOT AMT
CHN19293) FIBER OPTIC INFRARED SPECTROSCOPY FOR "SMART"	RIM PROCESSING		N 12	≪	\$69,110
Polytechnic University Mijovic		Jovan	\$69,110	93-NC-365	\$69,110
CHMI9293) EQUIPMENT AND INSTRUMENTATION TO DEVELOP NONLINEAR OPTICAL MATERIALS FOR PHOTONIC AND LASER FECHNOLOGIES	ONLINEAR S		N 12 14/07/93	L E E A	\$243,000
	-	Braja	\$255,750	93-NC-366	\$255,750
QUISITION OF A 200 MHZ NUCLEAR	MAGNETIC RESONANCE		N 112	4	\$100.000
SPECTROMETER Ned Mexico State University		James	14/07/93	LEE 53-NC-367	30/09/93 \$100.000
(HH19293) INFRASTRUCTURE ENHANCEMENT FOR RESEARCH			12	< 1	\$209,419
Nes Mexico Highlands University Helv	Helvenston A	Mennitt	14/01/93 \$209,419	HEDBERG 93-NC-368	15/09/93
THE RELATIONSHIP BETWEEN LOCAL DEFECT STRUCTURE AND REA Carbon/carbon and BC3 Univ of Pennsylvania	CTIVIT' IN	C 9 8 8	N 36 14/07/93 \$460,800	PECHENIK 93-NC-369	
IN-SITU LASER ACTIVATION OF ELECTROCHENICAL KINETICS AT ELECTRODES Chio State Univ Research Foundation	CARBON	Richard	N 36 14/07/93 5449,559	WILKES 93-NC-370	
DESIGN OF SUPRAMOLECULAR ASSEMBLIES FOR OPTICAL SENSING	ING		98 8		
. Michigan State University Nocera		Oaniel	1533,377	93-NC-371	
ULTRA-THIN HAFD PROTECTIVE COATINGS			N 36	0.0000000000000000000000000000000000000	
Univ of Cilifornia, derkeley Komy	Komundulos Ko	Kyriakos	15.39.650	93-NC-572	
SYNIMESIS OF HISH-TEMP., MONOLITHIC CERAMIC SCOIES S COMPOSITES BY THE OXIDATION OF SOLID METAL-BEARING P Ohly State University	S SCERAMICHANTRIX NS PRECUSSCSMP) Sandnage	, , , , , , , , , , , , , , , , , , ,	36 15/37/93 15/99,046	PECHENIK 93-4C-373	

PROPOSAL STATUS REPORT (1 JJL 93 - 30 SEP 93) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES	
REPORT DATE 10/38/93	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSA" @	INITIATE START DATE TOT AMT
URES VIA DIFFUSION LIMITED CRYSTAL ECURSORS: SYNTHESIS AND PROPERTIE ifornia, Santa Barbara	LIZATION FROM S Lange	Ð.	N 36 16/07/93 \$754,766	PECHENIK 93-NC-374	
THEORY AND EXPERIMENTS ON CHEMICAL INSTABILITIES Stanford University	89 90 90	John	N 16/07/93 \$487,060	BERMAN 93-NC-375	
CVD OF TEXTURED BETA-ALUMINA COATINGS ONTO FIBERS AND EVALUATION Of Interfacial properties Georgia Tech Research Corporation		z.	36 22/07/97 \$577,763	PECHENIK 93-NC-376	
A STUDY ON DEFORMATION MECHANISMS IN TWO-PHASE ALUMINIDES Polytechnic University	GAMMA TITANIUM Wheng	bung	N 22/07/93 \$306,121	WARD 93-NC-377	
(SBIR) MULTIFUNCTIONAL POLYMERS Tacen Corporation	Salour	Michael	N 24 23/07/93 \$500,000	A LEE 93-NC-378	\$260,000 01/10/93 \$500,000
L STRESS ON THE TRANSPORT OF IN SYSTEMS sity	FLUIDS IN	Clarence	36 26/07/93 \$261,984	A LEE 93-NC-379	\$89.996 01/12/93 \$261.984
TAILORING OF GRAIN BOUNDARY CHEMISTRY FOR THE D Creep-resistant ceranic oxides Lobigh University	DEVELOPMENT OF SUPER Harmor	Martin	N 36 28/07/93 \$734,133	PECHENIA 93-NC-390	
GRIW SOL-GEL GLASS AND DIFFUSION IN RESTRICTED TEXES Christian University	GEOMETRIES Zerda	T. Kaldok	M 26 28/07/93 \$163,841	ERSTFELD 93-NC~391	
A DYNGHIC AND STRUCTURAL STUDY OF METHANOL OXIN AUTHEMIUM-COVERED PLATINUM SINGLE-CRYSTAL ELECTURIA of Illinois	OKIDATION ON LECTSOOSS Aleckouski	Andrzej	14 32/01/93 \$350,000	WILKES 93-NC-382	

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FITLE CCONT.) INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program manager Proposal #	INITIATE START DATE TOT AMT
SYNERGISTIC TOUGHENING OF MOLYBEDENUM DISILICIDE		N 36	0	
Ohio State University Soboyejo	Wole*	\$367,514	93-NC-383	
THE PYRCLYSIS & PHOTOLYSIS OF ALKYLARSINE COMPOUNDS: DETECTION OF Pyrolysis & photolysis products by Mass spectrometry & Absorption Howard University	Hi deo	N 02/08/93 \$295,950	HEDBERG 93-NC-384	
HYPEATHERMAL ENERGY ION—SURFACE INTERACTIONS: APPLICATIONS TO THE Growth of thin films and stability of small structures Copposity	20 20 20 20 20 20 20 20 20 20 20 20 20 2	N 02/08/93 474,686	ERSTFELO 93-NG-385	
REFRACTORY-METAL-DISPERSION STRENSTHENED NIAL Massachusetts Institute of Technology	David	N 36 02/08/93 \$375,000	WARD 93-NC-386	
NGW CONCEPTS IN MEMBRANE SCIENCE. ULTRA-HIGH SELECTIVITY MEMBRANES For Electrochemical and other applications Golorado Strto University	S Charles	N 04/08/93 \$329,260	WILKES 93-NC-387	
MIGH PERFORMANCE ELECTROOPTIC POLYMERS AND EXCITED STATE Enhancepent mechanisms Univ of Pennsylvenia	Anthony	M 36 04/08/93 \$1,005,328	LEE 93-NC-383	
COMPLETELY FLUCRINATED AROMATIC COMPOUNDS North Carolina State University	Servence	N 04/08/93 \$354,164	HEDBERG 93-NC-389	
CHEMICAL STUDIES IN LEWIS ACID AND SUPERACID IONIC LIQUIDS North Denalina State University Osteryoung	Robert	R 12 05/08/53 1160,378	MILKES 93-NC-390	\$160.378 01/01/94 \$160.378
SOLICIFICATION SEMAYIOR & MECHANISMS OF MIGH TEMP. DEFORMATION AND FRACTURE IN COMPINE MATRIX COMPOUNTS OF CALLIC MATRIX COMPOUNTS OF CALLIFORNIA. Invine		N 36 09/08/93 \$440,260	D WARD 93-NC-391	

REPORT DATE 10/08/93

	TYPE/MONTHS STATUS INITIATE RECEIVED PROGRAM MANAGER START DATE AMOUNT PROPOSAL & TOT AMT	N 36 19/08/93 LEE 8456 _b 035 93-NC-392	N 36 23/09/93 LEE \$462,832 93-NC-393	N 36 24/08/93 WARD \$464,805 93-NC-394	12 ERSTFELD 31/09/93 ERSTFELD \$8,000 93-NC-395	A 12 A \$4,320 13/09/93 BERMAN 01/10/92 \$4,320 93-MC-396 \$4,320	N 36 PECHENIK 13/09/93 PECHENIK 8316,139 93-NC-397	N 12 A 13/09/93 WILKES \$5,000 93-NC-398	N 35 M 15/09/53 PECHENIK \$332,176 93-NC-399	26 20 20 20 20 20 20 20 20 20 20 20 20 20
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES	TITLE (CONT.) INVESTIGATOR	DEVELOPMENT OF QUANTUM DOT MATERIALS FOR OPTICAL DEVICES BY THE SOL-GEL METHOD Univ of California, Los Angeles	NOVEL GUANTUM DOT MAVEGUIDE DEVICES BY THE SOL-GEL METHOD Univ of Arizona	PROCESSING - PROPERTY RELATIONSHIPS IN ADVANCED INTERMETALLICS Rockwell international, Science Centor Hardwick Dallis	1994 GORDON RESEARCH CONFERENCE ON CHEMISTRY OF ELECTRONIC Materials Gordon Research Conferences Inc	SWCL CONTRACTORS CONFERENCE Aeronautical Systems Division Collom Sonny	NEW LOW EXPANSION MATERIALS FOR OXIDATION PROTECTIVE COATINGS ON Carpon-Carbon composites Pennsylvania Stata University	1954 GJRDON RESEARCH CONFERENCE ON ELECTROCHEMISTRY Gordon Research Conferences Inc	NEW LOW EXPANSION MATERIALS FOR OXIDATION PROTECTIVE COATINSS ON CARDON COMPOSITES Pennsylvanic state University Apriamal	AR SOSTIGE THE PRESSURE GAP IN HETEROSCHEDUS CATALITSIS: USE DE

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PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH Directorate of Chemical and Atmospheric Sciences

TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/NONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
CERAMICS FROM METAL-ORGANIC PRECURSORSS Univ of Arizona	Uhlmann	Donald	8 29/09/93 \$539,999	ERSTFELD 93-NC-401	
HIGH PERFORMANCE NONLINEAR OPTICAL POLYMERS ENICHEM American Inc	44	Alex K-Y	N 24 30/09/93 \$268,330	LEE 93-NC-402	
DEVELOPMENT OF REPLACEMENTS FOR HALON FIRE Univ of Worth Texas	EXTINGUISHERS Marshall	Paul	N 30/09/93 \$236,593	HEDBERG 93-NC-403	:

	INITIATE START DATE TOT AMT		\$175,000 15/11/93 \$175,000		\$100.000 01/01/94 \$600.000		\$78,382 19709/33 1974,293	\$119,183 01/11/93 \$389,244		
PAGE	STATUS PROGRAM MANAGER PROPOSAL #	CRAIG 93-NE-470	A 83-NE-471	SCHLOSSBER 93-NE-472	A SCHLOSSBER 93-NE-473	BARKER 93-NE-474	A CRAIG 93-NE-475	A N111 93-NE-476	CRAIG 93-NE-417	SCHLOSSBER 93-NE-478
	TYPE/MONTHS RECEIVED AMOUNT	N 36 06/07/93 \$246,807	22 06/07/93 \$203,413	36 07/07/93 \$768,899	N 36 07/07/93 \$750,001	N 36 07/07/93 \$1,227,365	N 06 08/07/93 574,251	N 05/07/93 \$389,244	36 12/07/93 \$299,319	N 12/07/93 6474,401
93 - 30 SEP 93) Research Iaterial sciences		Yujie	Thomas	r	84 80 81	William	Robert	Unesh	. Loho	Charles
PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93) AIR FORCE CFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES	INVESTIGATOR	OF SEMICON	OMS Gallagher	T Kimble	RS USING MBE WAVEGUIDES Acfarlane	H ON ADVANCED MICROWAVE Destler	JER NETWORK USING RFLCE-EMITTING LASER ARRAY RFYRO	ES CF LTG (AL)SAAS AND ITS ELEC FPLICATIONS Mishfb	ED MOVING DIFFUSERS Caultield	PULSES: DEVICE STUCIES WITH Jones
REPORT DATE 10/09/93 A	?	INSTITUTION OPTGELECTRONIC PROPERTIES AND DEVICES ASYMMETRIC QUANTUM WELL STRUCTURES Bowling Green State University	STRUCTURE AND DYNAMICS OF EXCITED ATOMS Univ of Virginia	SPECTROSCOPT WITH NOW CLASSICAL LIGHT CALIFORNIA INSTITUTE OF Technology	WISIELE AND NEAAR IR LASER OSCILLATORS USING Hughes Aircreft Corp Research Labs	EXPERIMENTAL AND THEORETICAL RESEARCH ON ADV Generation Concepts Univ of Maryland	(SDI-93) TERABIT/SEC PHOTONIC COMPUTER NETWORK USING MULII-4AVELENGIH VERTICAL-CAVITY SURFACE-EMITTING LASER Photonics Research Inc	THE STUDY OF THE NATERIALS PROPERTIES OF LTG (AL)SAAS AND FRONIC AND CPICE AFPLICATIONS MISHES IN Univ of California: Santa Barbara	TPANSMISSION OF LIGHT THROUGH EXTENED MOVING Alabema AEM University	COHFACINT EMISSION BY ELECTRON MICROPULSES: THE NGCU ELECTAIN GUN North Ceroling Control University

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
OPTICAL PROBING OF MAGNETO-OPTIC STRUCTURES AND SEMINITY HIGH RESOLUTION AND SENSITIVITY ALT Research Corporation	SEMICONDUCTORS Vaez-Iravani	Mehdi.	N 36 12/07/93 \$288,244	SCHLOSSBER 93-NE-479	
PHOTOREFRACTIVE TUNGSTEN BRONZE MATERIALS FOR OPTICA Rockwell International, Science Center Neur	OPTICAL COMPUTING Neurgaonkar	oκ	R 12/07/93 \$799,992	A Craig 93-NE-480	\$100,000 01/11/93 \$799,992
INTEGRATION OF PERROELECTRIC THIN FILMS SLM·S AND OPTICAL Information Processing Systems Aockmell international, Science Center	D OPTICAL Neurgaonkar	Ratzakar	8 24 12/07/93 \$599,889	A CRAIG 93-NE-481	\$75,000 01/11/93 \$599,889
(FY32-33 HBCU/MI) INSTRUMENTATION TO ENHANCE OPTICAL S FOR SEMICONDUCTOR METROLOGY DEVELOPMENT Univ of New Moxico	OPTICAL SCATTEROMETRY McNeil	John	N 13/07/93 \$185,028	A SCHLOSSBER 93-NE-482	\$185,028 01/09/93 \$185,028
(FY92-)3 H3CU/MI) DEVELOPMENT OF 1 - 2 UM TUNABLE SJLI LASERS BASED ON CR (4+) AS A LASING ION Gity University of Now York	SJLIO-STATĒ fano	20 bent	N 36 13/07/93 \$235,000	A SCHLOSSBER 93-NE-483	\$235,000 01/10/93 \$235,023
(F192-)3 ABCUZNI) INSTRUMENTATION IN SUPPORT OF THE N GU1 Gorth Carolina Central University	THE NCCU ELECTRON Jones	Charles	N 36 13/07/93 \$69,822	SCHLOSSBER 93-NE-484	\$69,024 01/10/93 \$69,622
CFY32-93 HECU/MIX INSTRUMENTATION FOR THE PULSED FOWER AND SCIENCES LA3DRATARY AT THE UNIVERSITY OF NEW MEXICO SCIAME SCIAN OF NEW MEXICO	POWER AND PLASMA ICO Scrimmilogiu	Ed1	N 36 13/07/93 \$154,519	A Sarker 93-ne-485	\$154,519 30/09/93 \$154,519
C=Y92-33 H3CU/MI) DEVELOPMENT OF COMPACT 1.05 AND 2. LASERS dowerd University Kush	A43 2.1 AICRON Kushawaha	Vikram	N 24 14/07/93 \$259,370	A SCHL355BER 93-NE-486	\$257,137 30/09/93 \$259,370
THE CHAPSING REFECT IN HIGH T(C) SUPERCONDUCTING THIN FILMS Univ of Rochaster Sobolemski	Thin Films Sobolemski	C.P. M.O.K.	R 36 14/07/93 \$261.000	MEINSTOCK 93-NE-487	\$85,000 61/61/94 \$240,000

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TITLE (CONT.)	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE Start date Tot ant
CUZMI) MOLECULAR BEAM EPITAXIAL	SYSTEM		N 12	u 2 4 u 4 a 2	\$736,795
North Carolina A&T State University	Iver	Shanti	13/0//33 \$737,795	93-K-488	\$736.795
TRANSPORT OF AIR PLASMAS			36	4 u	\$249,923
Stanford University	Kruger	Charles	\$747,091	93-RE-489	\$747.091
COMPACT GATED BEAM RF SOURCE INVESTIGATION	C = L = J	Preston	N 21/07/93 \$249,841	BARKER 93-NE-490	
HISH POWER MICKOWAVE GENERATOR			R 36	61 14 24 24 26	
Texis Tech University	Kristiansen	Magne	\$150,000	93-NE-491	
COMPACT MILLIMETER WAVE DEVICES			N 36 22/07/93	2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A	
Univ of California, Davis	Luhmann, Jr	Neville	000,000.	93-NE-492	
(H2CU/MI 32-93) HOT ELECTRON GE/SI LASERS			4 24 24 24 26/07/93	POSRINKE	\$242,571 01/09/94
City University of New York	Shum	Kai	\$242,571	93-NE-493	\$242,571
(PHISE II) GROWTH OF THICK BORON PHOSPHIDE FI	FILMS		R 24 27/01/93	POSRENKE	
Spire Corporation	Vernon	Stanley	8499,340	93-NE-494	
INVESTIGATION OF ATOMIC COLLISIONS AND FREQUENCY STABILTLY MITH	ENCY STABILTLY WITH A		N 12 05/08/93	KELLEY	
CAYDUSTIC AYDROGON MANER Saithsonin Institution	delsworth	Ronald	199,757	93-NE-495	
DISSUSTICS AND MODELING OF MICROJAVE GENERAL	RATED PLASKES		N 36	0 XX XV V V V V V V V V V V V V V V V V	
Michigan State University	Haml 2y	Hartzn	\$459,346	967-3N-E6	

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TITLE CCONT.) INSTITUTION	TYPE.	TYPE/HONTHS RECEIVED AMDUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE Start date Tot amt
ELECTROMAGNETIC MAVE PROGATION AND ATTENUATION IN MAGNETOPLASMAS	800	36 36 05/08/93	8 A R K E R	\$34,831 01/12/93
Massachusetts Institute of Technology Lae	Min-Chang \$45	\$451,050	93-NE-497	\$69,544
(FY92-93 HBCU/MI) TECHNICAL ASSISTANCE TO HBCUS/MIS TO INCREASE	2	N 24	# 14 P	\$183,333
CAPASILITIES District of Columbia University	Leslie \$40	000.000	93-NE-498	8400,000
(FY92-93 YSCU/NI) THE DOD/HBCU/MIS TECHNICAL ASSISTANCE PROGRAMS	Z	N 24	A BEINSTOCK	\$183,333
Southern University AEM College	Rose \$33	\$395,000	93-NE-499	\$395,000
G(A)N, AIN, AND I(N)N: SURFACES, METAL CONTACTS AND	Z	36		
HETEROSTRUCTURES Princeton University Kahn	Antoine \$27	\$277,307	93-NE-500	
SMART PIXEL TECHNOLOGIES FOR INTERFACING OPTICAL MEMORIES WITH OPTOELECTRONIC COMPUTING SYSTEMS/GUIDED WAVE OPTICAL INTERCONNECTS Univ of California, San Diego	N 16/ Sadik 842	N 36 16/08/93 \$420,000	CRAIG 93-NE-501	
NOVEL SEMICONPUCTORS	N 23,	36/08/93	POMEENKE	
Arizona State University 50°s	John \$26	\$262,545	93-NE-502	
THEORY OF LASER COOLING AND TRAPPING OF ATOMS AND IONS	S	N 36	A. 0. 1 1 0. 3 1 0. 3 1 1 0. 3 1 1 0. 3 1 1 0. 3 1 0	
Univ of Connecticut	Juha \$36	82,837	93-NE-503	
NOVEL MULTIPLEXING TECHNIQUES FOR HIGH-SPEED OPTICAL TRANSMISSION CONTINUE AND TETESS.	7*2	N 36	CK+16	\$155,475 01/12/93
Chity Conversity of Was Tork	Samir s67	79,911	93-NE-504	\$479,911
DYNAMICS OF SUPERMATRIX SEMICONCHOR GROWTH	25,	26 738/93	PORSENE	
Electronic Moterials Engineering Holses	Solvates strains	\$166,415	93-NE-505	

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REPORT DATE 10/38/93 PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93) ARR PORCE OFFICE OF SCIENTIFIC RESERRCH DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES TITLE INVESTIGATOR INTERPREDIATE INVESTIGATOR INVE
REPORT DATE 10/28/93 TITLE TITLE (CONT.) INSTITUTION CHECULMI) ADVANCEMENT OF KNOXVILL KNOXVIII COIIESE EXPERIMENTS WITH TRAPPED NEUTRAL OFFICE OF NAVEL Research CASCERT-93) HTCS MCM PROCESS DEV Univ of Arkensas SARPLE TESTING FOR OPTICAL POLIN Dezcon Research

Johns dopkins University	Khurgin	Jacob	\$368,146	93-NE-511		
ATS FILMS AND MULTILAYERS FOR ELECTRONICS				MEINSTOCK	15/02/94	
destinghouse Electric Corporation	Talvacchio	John	648 a E 6 E \$	93-NE-512	\$825,000	
JOINT SERVICES BLECTRONICS PROGRAMS			N 36	1		
Univ of Californias Serkaley	Зоког	Jeffrey	42°457°256	33-NE-513		
14TH TEEE INTERNATIONAL SEMICONDUSTOR LASER CONFERENCE	SONFERENCE		N 12	2 4 5 7 0 1 H J 7		
Inst. of Mectrical & Slectronics Engra	しいませのたしの言	Robert	110,000	93-NE-514		

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TITLE (COMT.) INSTITUTION	IGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal &	INITIATE Start date Tot ant
FOURTESNIH INTERNATIONAL CONFERENCE ON ATOMIC PHYSICS		N 12	SCHLOSSBER	
Univ of Colorado Wieman	Carl	\$10,000	93-NE-515	
(AASERT-93) STRAINED-LAYER MULTIPLE GUANTUM WELL FOR HIGH Linearity modulation		N 36 22/09/93	CRAIG	
Univ of California, San Diego	Tred	CD * * K * C	22-46-216	
MEASUREMENT OF VISRATIONAL EXCITATION CROSS SECTIONS OF MOLECULAR	F NOLECULAR	N 36 24/09/93	KELLEY	
MINOUN SY ELECTRON INTACT UNITY OF MIChigan	Tong	\$411,180	93-NE-517	
(H3CU) FREE RADICAL SPECTROSCOPY USING LASER-INDUCED FLUDRESCENCE	LUORESCENCE	36 36 86/00/36	KELLEY	
AND IME OPTOGALVANIC ETFECT Abeard University	Prabhakar	\$322,758	93-NE-518	

PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH JIRECTORATE OF EDUCATION, ACADEMIC AND INDUSTAY AFFAIRS

	TYPE/MONTHS STATUS INITIATE RECEIVED PROGRAM MANAGER START DATE AMOUNT PROPOSAL 8 TOT AMT	N 12 A \$30,040 13/07/93 HART 01/07/93 \$116,551 93-NI-045 \$30,040	N 03 A \$14,156 " 19/07/93 HUGHES 01/07/93 \$14,156 93-NI-046 \$14,156	N 06 A 85,000 27/07/93 ZARSO 18/08/93 \$21,468 93-NI-047 \$5,000	N 09 A \$4,524 03/08/93 HART 01/09/93 \$31,715 93-NI-048 \$4,524	N 02 A \$1,337 04/08/33 ZARBJ 01/10/93 \$9,011 93-NI-049 \$1,337	N 12 A \$8.273 15/02/93 HART 01/09/93 \$93.274 93-NI-051 \$5.273
DIRECTORALE OF COCCUSATIONS OF	TITLE (CONT.) INVESTIGATOR	ANSTRUCTOR A STUDY OF AMORPHOUS AND GLASSY MATERIALS WITH POSSIBLE APPLICATIO H TO HIGH TEMPERATURE SUPERCONDUCTORS Knoccester Polytechnic Institute	SMALL BUSINESS INMOVATIOM RESEARCH SOLICITATION (TRAVEL AND PER DIEM)	INVESTIGATION OF THE INTERFACIAL STRUCTURE AND LATTICE-MISMATCH IN THJ-PHASE GAMMA TITANIUM ALUMINIDES Arijht Lab	INFLUENCE OF DIFFERENTIAL PHYSICAL TRAINING METHODS FOR ENHANCING Suration tolerance to sustained acceleration Univ of North Carolina	ION AND RELATED TRACE NEUTRAL CHEMISTRY IN THE LOWER ATMOSPHERE Phillips Lab - Geophysics Directorate Viggiano Albert	INTERFACE-GUIDED NONLINEAR SURFACE POLARITONS AND SECOND HARMONIC Generation Kant State University

PAGE 1	PROGRAM MANAGER START DATE PROPOSAL 8 TOT AMT	TANGER	93-NL-345	A DICK TNSON	93-NL-346 \$174,801	COL		DICKIMSON 93-NL-348	A \$51,042 KRDLL 15/09/93 93-NL-349 \$51,042	COLLINS , 15/09/93 53-01.015	COLLINS 93-NL-351	5 COLLINS 9 - ML-352	2 A 854,819 3 TANGHEY 01/10/93 9 93-NL-353 854,819
	TYPE/MONTHS RECEIVED AMOUNT	N 36	\$706,590	N 12	\$174,801	R 36	\$1,487,142	N 09/07/93 \$423,800	N 09/07/93 \$51,042	N 09/07/93 \$231,015	N 12/07/93 \$1,919,514	N 12/07/93 \$356,910	12 13/07/93 154,919
93 - 30 SEP 93) RESEARCH			Craig		G. Randy		Leonard	Richard	Jyotsna	Albert	See	Robert t	Shrings
PROPOSAL STATUS REPORT (1 JUL 3 AIR FORCE OFFICE OF SCIENTIFIC 5 DIRECTORAY & OF LIFE SCIENCES	INVESTIGATOR	INS FOR NOISE BAND SIGNALS	edic Formby	JISITION AND ANALYSIS	Xeller	N AND ORIENTATION	Matin	AL PHYSICS AND ABSOLUTE EARTH Packard	AND SUBMILLINETER GAS PHASE SP Dutta	TATION AND ERROR CHECKING STRA Miller	F THE EYES, HEAD AND NECK Lacknes	Stoingeo	E IMPLEMENTATION OF ACVANCED MA Dhaffeadkar
REPORT DATE 10/08/93 A	FITLS TITLE (CONT.)	ACOUSTIC AND PHONETIC TRADING RELATIONS FOR	Johns dopkins University-School of Medi	INSTRUMENTATION FOR SEISMIC DATA ACQUISITION	Univ of Texase El Paso	VISUAL PERCEPTION OF SPATIAL LOCATION AND ORIE	Columbia University	SUPERFLUID PHASE-SLIPPAGE: FUNDAMENTAL PHYSICS Rotation Univ of California, Berkeley	M9CU INSTRUMENTATION FOR MILLIMETER AND SUBMILLINETER ECTROSCOPY North Caroling Central University Dutta	HESC'S NODE OF HUMAN IMAGE REPRESENTATION AND TEGIES IN COMPLEX VISUAL DISPLAYS Dalbuere State College	SPATIAL DISCRIENTATION AND CONTROL OF THE Branseis University	COGPETANTED ACTION IN 3-D SPACE II Univ of Asryland	HM13233 - HUMAN FACTOR ISSUES IN THE IMPLEMEN HUFACTURING South Cerolina Stato College

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PROPOSAL STATUS REPORT (1 JUL 33 - 30 SEP 93) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH Jirectorate of Life Sciences

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TITLE (CONT.) INSTITUTION		TYPE/HONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
MODELING AND PARAMETERIZATION OF GRAVITY WAVE BREAKING, INTERACTIONS, AND INSTABILITY PROCESSES IN THE LOWER & MIDDLE ATMOSPHERE Univ of Colorado	David	N 14/07/93 \$262,374	D KROLL 93-NL-354	
FRONT BOUNDARY-LAYER PROCESSES		R 36	KROLL	
Univ of Colorado	William	\$249,047	93-NL-355	
STORMS IN THE HIGH PLAINS AND ON THE EAST SIDE OF THE ROCKY MOUNTA		36 8 8	0.0	
INS Purdue Research Foundation	Wen-yih	\$314,968	93-NL-356	
THREE-DIMENSIONAL AUDITORY CUES AND SPATIAL ORIENTATION IN AIRCRAF		N 24	V#1	
Texas Tech University	Ahra	\$164,764	93-NL-357	
ADAPTIVE VISUAL-VESTIBULAR MECHANISMS FOR SPATIAL		N 36	77	
ORIENTATION Univ of Aississippi Medical Center	Cora	\$258,133	93-12-6	
HBCU ANALYTICAL INSTRUMENTATION FOR ENVIRONMENTAL RESEARCH		N 12	A 50 7 10 10 10 10 10 10 10 10 10 10 10 10 10	\$448.733
Stevens Institute of Technology Karfietis	•0.000	1449453	93-NL-359	\$449,453
PHYSICAL CONSTRAINTS ON FORM: INVESTIGATING VISUAL INFORMATION FOR		N 36	TANGER	
siz: KNO Jislahue Indions University/dryan Hall	Geotfrey	\$347,637	93-NL-360	
AUTHMATTHG THE DEVELOPMENT OF INTELLIGENT TUTORING SYSTEMS		N 36	2 2 2 4	
July of Massachusetts	[everly	31,255,313	93-NL-361	
MAJON SOLAR PECTON EVENT RECORD FROM POLAR ICE CORES		R 36	PADOSKI	
Unix of Kansas, Cantar for Research	Sisela	\$152,000	93-NL-362	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal B	INITIATE START DATE TOT ANT
HORKSHOP OF SCATTERING FROM ROUGH SURFACES			N 02	A A DICKINSON	\$5,340
Army Research Office	Flood	Es) ter	\$5,340	93-N-263	\$5,340
IMPLICIT KNOWLEDGE ABOUT FALLING TRAJECTORIES			N 36 N 36	COLLINS	
State University of New York	Franklin	Nancy	\$274,631	93-NL-364	
VISUAL PERCEPTION OF SELF NOTION			N 36 28/01/93	COLLINS	
Johns Hopkins University-School of Medic	Turano	Kathleen	\$529,505	53-NL-365	
VISUALLY-GUIDED NAVIGATION			N 36 03/80/63	COLLINS	
Univ of California, Berkeley	danks	Nartin	\$332,900	93-NL-366	
SPTICAL IMAGE REPRESENTATION IN EARLY VISION			N 36 11/08/93	A WEST A	
Univ of Pennsylvania	Gottschalk	Allan	\$636,695	93-NL-367	
SONYET 2: A STOLOGICALLY PLAUSIBLE NEURAL NETWORK	HORK		N 36	AMERICA	
FOR PATTERN RECOGNITION AMERICAN UNIVERSITY	Nighto	Albert	\$276,270	93-NL-368	
CONPUTATIONAL NEURAL MODELING OF IMAGE STABILIZATION MECHANISMS	IZATION MECHANISMS		N 24 11/08/93	TANGNEY	
Syracusa University	Mehrotra	Kishan	\$362,252	93-NL-369	
JISUAL MOTION PERCEPTION AND VISUAL INFORMATION PROCESSING	ON PROCESSING		N 03	**************************************	\$66,920
Univ of Galifornis, Irvina	sperling	George	\$66,920	93-NL-370	\$66,920

COLLINS 93-4L-371

N 36 16/08/93 \$237,753

Gary

TOKIKO AND APPRECIATION OF VESTIBULAR PATTERN RECOGNITION AND THE ACTIVE PERCEPTION OF ORIENTATION RECOED RECES

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TITLE (CONT.) - INSTITUTION	INVESTIGATOR		TYPE/HONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
PERCEPTION OF THREE DIMENSIONAL SHAPE			9 m	3	
Purdue University	Pizlo	Zygmunt	8444,659 8444,659	1 ANGNET 93-NL-372	
STUDIES IN LONG-TERM MEMORY			36		
Duke University	Aubin	David	19/03/93 \$308, 370	TANGNEY 93-NL-373	
PTSD PATIENTS, NORMAL	AND		7 S		
PSYCHIARTRIC PATIENTS Veterans Administration Medical Center	Liberzon	Israel	19/08/93 195,258	TANGNEY 93-NL-374	
FACILITATION AND INTERFERENCE IN IDENTIFICAT	ION OF PICTURES AND WO		99 S		
KUS Nem York University	Snodgrass	Joan	\$250,867	1 ANGNET 93-NL-375	
EARLY SCENE ANALYSIS: RAPID PROCESSING OF CO	NTOURS, SURFACES AND O		35		
BJECTS IN HUMAN VISION Harvard University	Cavanagh	Patrick	20/08/93 \$473,989	TANGNET 93-NL-376	
A PSYCHOMETRIC COMPUTATIONAL POP MODEL OF	TEXT MEMORY		09		
Univ of Texas	solden	Richard	23/08/93 \$493,163	1 A N G N E T 93 - N L - 377	
; TACTILE FEEDBACK FOR PERCEPTION OF SURFACE F	FORM AND TEXTURE		9 P		
Dhis State University	Weisenberger	Janet	23/08/93 \$465,611	TANGNET 93-NL-378	
PREATTENTIVE AND ATTENTIVE VISUAL INFORMATION	2		96	₹ • •	
Johns dookins University	Egeth	D L 2 R O L	\$408°139	\$3-NL-379	
PRE-FITURAL DEJECT RECOGNITION: PROCESSES, P	PROPERTIES, AND INTERAC		09 2		
Univ of Arizona	Potenson	Kary	2447.037	93-NL-380	

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REPORT DATE 10/08/93	PROPOSAL STATUS REPORT (1 JUL) AIR FORCE OFFICE OF SCIENTIFIC ORRECTORATE OF LIFE SCIENCES	93 – 30 SEP 93) Research		PAGE 5	
FITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT ANT
COMMITTEE ON SEISMOLOGY	,		24 27 8 24 27 24 24 25 27 28 29 3	DICKINSON	\$40.000
National Academy of Sciences	Benson	H11110m		73-HC-361	
DIMENSIONALITY REDUCTION FOR VISUALIZATION MULTIVARIATE ECOTOXICOLOGICAL DATA OF VARY Western Washington University	IISUALIZATION AND INTERPRETATION OF Data of varying phyciemporal scales Landis	e C Ar R	R 31/08/93 \$485,416	KOZUMBO 93-ML-382	
AEROBIC BIOTRANSFORMATION OF CHLORINATED A Xtures of Chlorinated Aliphatics and Heavy Rice University	RINATED ALIPHATICS: EFFECTS OF MI And Heavy Netals Aughes	Joseph	N 31/08/93 \$319.094	KOZUMBO 93-NL-383	
PROPOSAL TO EXTEND AND TEST COGNITIVE TUTOR	TIVE TUTORS		36 36	7- U.Z.	
Carnegie-Mellon University	Anderson	John	\$548+913	93-NL-384	
TUTORING THAT USES EXAMPLES APPROPRIATELY	PRIATELY		86/60/20	TAX6MEY	
Univ of Pittsburgh	Yanlehn	Kult	\$494,231	53-NL-385	
NEURAL NETWORK FOR VISION CHANNEL INTERACTION AND MEMORY	INTERACTION AND MEMORY		36 80/00/03	TANGNET	
Boston University	Ber-Yan	Yaneer	\$297,234	98E-7H-E6	
FURTHER RESEARCH ON SUPER AUDITORY LOCALIZA	Y LOCALIZATION FOR IMPROVED HUMAN		N 36	2 Z I I I I I I I I I I I I I I I I I I	
MASSICHUSELLE INSTITUTE Of Technology	logy Jurlach	Natheniel	\$356,447	78E-7N-65	
SORDON RESEARCH CONFERENCE ON PINEAL CELL	EAL CELL BIOLOGY		N 01	O O O O O O	
Univ of Texas Health Science Ctr	Roster	Aussel	\$7.500	93-NL-388	
IN VITPO APPROACH TO PREDICTIVE TOXICOKINET	OXICOKINETICS		86 80/60/00	0 9 5 0 7 0 3	
Johns Hopkins University	FOTNOLF	John	\$457,379	93-81-389	

PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93)
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START DATE \$29,721 01/01/94 \$215,107 \$30,000 INITIATE \$30,000 TOT ANT PROGRAM MANAGER PROPOSAL # 93-NL-395 93-NL-396 93-KL-398 93-NL-390 93-KL-392 93-NL-393 53-NL-397 93-NL-391 93-NL-394 STATUS DICKINSON DICKINSON TANGNET KOZUMEO KOZUMBO KOZUMBO HADDAD HADDAD HADDAD TYPE/MONTHS N 36 13/09/93 8541,287 12 23/09/93 13/09/93 N 12 21/09/93 RECEIVED \$27,623 \$30,000 14/09/93 \$562,111 14/09/93 \$102,783 8 7 14/09/93 \$885,896 22/09/93 \$215,120 27/09/93 \$506,254 1月つのまべ Laurence M. Paul Ddoudo Thomas Scott Mary Anne 41an A PROPOSAL FOR A WORKSHOP ON INVESTIGATIONS OF LITHOSPHERE ARCHITE Cture and development (iliad Workshop) HUKKN BEGATH TEST FOR DETECTION OF STRLY TETRACHLORDEINYLEVE HEPAT 3 ANALYSIS OF SOVIET DSS RECORDS FOR PROPAGATION & MODELING OF LG Ockage across major crustal features ASSESSMENT OF CYANOBACTERIAL MATS FOR SIMULTANEOUS BIOREMEDIATION OF HEAVY METALS, PAMS & TCE IN A QUEOUS SOLUTION Clark atlanta University A STUDY OF THE METABOLISM AND TOXICITY OF SOME MEDIUM MOLECULAR MEISHT HYDROCARBONS IN FISCHER 344 RATS
Mright State University A INTIONAL AGENDA FOR VIRTUAL REALITY RESEARCH AND DEVELOPMENT INVESTIGATOR Saithson Lavander Horin Maror PROTEIN TYROSINE KINASES AND THE CIRCADIAN SYSTEM CHRONDZIOLOGY OF RETINAL SENSITIVITY MODULATION CIRCADIAN VISUAL SYSTEM DEVELOPMENT State University of New York National Research Council Johns Hopkins University Stanford University SRI International Univ of Myoming Rice University TITLE (CONT.) NCITUTITY

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	INITIATE Start date Tot amt		\$20,727 01/01/94 \$248,725
PAGE 7	STATUS PROGRAM MANASER PROPOSAL "	COLLINS 93-NL-399	DICKINSON 93-NL-400
	TYPE/MONTHS RECEIVED AMOUNT	N 36 27/09/93 \$495,777	N 24 23/09/93 \$248,726
PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF LIFE SCIENCES	INVESTIGATOR	AL ORIENTATION: BIOCHEMICAL, ELECTROPH Investigations IV	INISM AND DEPTH FOR SMALLER TELESEISMIC Ity Rennett Brian
REPORT DATE 10/08/93	FITLE (CONT.) INTLE (CONT.)	COMPARATIVE STUDIES OF SPATIAL ORIENTATION: YSIOLOGICAL, AND BEHAVIORAL INVESTIGATIONS College of Staten Island/CUNY	DETERMINING THE SOURCE MECHANISM AND DEPTH EVENTS Australian National University

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	TYPE/MONTAS S RECEIVED PROGN	8 36 JACGBS 02/07/93 JACGBS \$503,473 93-	N 24 02/07/93 GLASSMAN \$337,069 93-NM	36 A 02/07/93 WAKSMAN 65/9907 93-R	36 A B B B B B B B B B B B B B B B B B B	24 JACOBS 02/07/93 JACOBS \$35,000 93-	4 36 A 36 A 36 B 3 3 2 2 5 6 9 9 3 - 1	N 36 13/07/93 GLAS \$182,540 9	N 24 13/07/53 HACI 8352,487	N 36 13/07/93 WAK.
93 - 30 SEP 93) Research 'Nformation Sciences		Harold	Michael	37.00	Glenn	I. Edward	•	Ookolas	Alexander	
PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93) Air force office of Scientific Research Directorate of Mathematical & Information Sciences		Aushner	IPLE DEMAND SCENARIOS: Ball	AND RECOGNITION OF CURVED 3-D Flinchbaugh	NTERCEPT (LPI) Prescott	ES AND EDUCATIONAL th Block	CONTROL OF DISTRIBUTED & HIGH Sibson	D DEPOT MAINTENANCE CONSIDERING Geomill	DIELECTRIC MATERIAL EXHIBITING Fisotin	FOR ACTIVE DATACASE SYSTEMS
REPORT JATE 10/08/93 A	3	INSTITUTION STOCHASTIC CONTROL AND NOMLINEAR ESTIMATION Brown University	RESOURCE ACQUISITION MODELS FOR MULTIPLE A PROJECTION-BASED NETHODOLOGY Univ of Maryland	PROPOSAL FOR RESEARCH IN DESCRIPTION DBJECTS FROM SINGLE INTENSITY IMAGES Texas Instruments Inc	MULTIPLE-ACCESS LOW PROSABILITY OF INTERCEPT COMMUNICATIONS NETWORKS Univ of Kansas, Center for Research	NATHEMATICS IN INDUSTRY: OPPORTUNITIES REGULRENENTS Society for Industrial & Applied Math	ADAPTIVE FILTERING IDENTIFICATION & CONTROL Dimensional systems Univ of California, Los Angeles	SHOP FLOOR SCHEDULING FOR PROGRAMMED DEPOT STOCHASTIC REPAIR NEEDS Iows State University	CHARACTERIZATION AND FABRICATION OF PHOTONIC SAPS	OPTIMIZING DISCRIMINATION NETWORKS FOR ACTIV

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal B	INITIATE Start date Tot ant
-DIMENSI	ONAL PARALLEL HYBRID		N 36 13/07/93	JACOBS	
ge Hydrodynamics Incorporated	Orszag	Steven	8587,140		
PARALLEL MAGNETOHTDRODYNAMIC COMPUTATION			N 60 13/07/93	JACOBS	
N.Y. U. Courant Institute Math Science	Strauss	Henry	1966,641	93-NK-389	
MOSELING AND CONTROL OF UNCERTAIN SYSTEMS			N 36 13/07/93	JACOBS	
Louisiana State University	79	Guoxíang	\$128,705	93-NN-390	
CATION, ESTINATION AND CONTROL	OF DISTRIBUTED		N 36	2 60 3 41	
PAZAMETER SYSTEMS Univ of Southern California	Rosen	I. Gary	4117,393	93-NN-391	
ELECTRICAL PROPERTIES OF PARTICULATE COMPOSITES			N 36	Z Z Z	
Thiokol Corp	Davis	I. L.	\$244,915	93-NN-392	
GALE TRANFORMS, POLAR POLYTOPES AND LINEAR PROGR Design, implementation and testing of New LP als	PROGRAMING: P ALGORITHMS		N 36 13/07/93	GLASSMAN	
Pertie meseurch noundertion	Noria	÷	.	53-NH-343	
ROUTING AND INVENTORY CONTROL MODELS IN GENERAL METHODES	DISTRIBUTION		N 36 13/07/93	GLASSMAN	
Columbia University	Simchi-Levi	David	\$398,963	93-11H-394	
RALICULZED ALGCRITHMS FOR ON-LINE PROBLEMS AND E	EDGE CONNECTIVITY		H 36	GLASSMAN	
Georgia Instatute of Tech	Karloff	Howard	\$325,960	93-NA-395	
DYNAMIC NETROAKS TECHNIQUES FOR AUTONOMUS PLANY	PLANYINS AND CONTROL		98 70771	7 T T T T T T T T T T T T T T T T T T T	\$60.000
Univ of California, Los Angeles	Pearl	Judea	1344994	33-NM-396	1313,526

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PAGE	TYPE/NONTHS STATUS RECEIVED PROGRAM MANAGER AMOUNT PROPOSAL #	N 36 14/07/93 JACOBS \$210,912 93-NM-397	N 36 14/07/93 NACHMAN \$313,209 93-NH-398	N 36 21/07/93 SUDDARTH \$235,649 93-NM-400	N 24 A 23/07/93 NACHMAN \$201,983 93-NM-401	N 12 A 23/07/93 NACHMAN \$152,728 93-NM-402	N 12 A 26/07/93 NACHMAN \$73,492 93~NN~403	N 15 A 26/07/93 NACHMAN 8125,850 93-NM-404
PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES	INVESTIGATOR	NG HIGH-PERFORMANCE COMPUTING Stengel	MAVE PROPAGATION AND OF WAVES Joseph	ELS Otto Kevin	STRUCTURES IN MULTI-RATE FILTER Tolimieri Richard	FOR COMPUTATIONAL FLUID Laim Goang	4 LABORATORY FOR VISUAL Milani Masoud	EFFORT IN EM RADIATION 6 viajinia statë university Agrawal
REPORT DATE 10/03/93 PROPO AIR F DIREC	TITLE (CONT.) INSTITUTION	ROL SYSTEM DESIGN USI niversity	MATHEMATICAL PROBLEMS OF MONLINEAR WAVE FIN HETEROGENEOUS MEDIA Stanford University	IMPRECISE CONSTRAINTS IN ENGINEERING MODELS Massachusetts Institute of Technology	CHAGU/MI FY 92/93) COMPUTATIONAL STRUCTU Banks City University of New York	CHSCU/MI FY92-93) GRAPHICS SUPERCOMPUTER DYNAMICS RESEARCH Alabama ACM University	CH3CU/NI FY 92-93) ESTABLISHMENT OF A LA Prosramming research Florida international University	CHACU/HI FY92-93) A RESEARCH TRANSFER EF AULLYSIS BETWEEN ARMSTRONS LABORATORY & Vir;inia State University

\$169,327 30/09/93 \$201,983

\$152,728 30/09/93 \$152,728

\$125,850 30/09/93 \$125,850

NACHMAN 93-NM-405

N 36 27/07/93 \$112,178

Harbert

SOLVING THE INVERSE PROBLEM FOR LAYERS & 3D OBJECTS BY USE OF BADARS SINGULARITY EXPANSION FOR SCATTERING UDERALL UNIVERSITY of America

APPROXIMATION ALGORITHMS FOR CONCURRENT FLOW PROSLEM WITH APPLICATIONS
Univ of North Texas

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FITLE (CONT.) INSTITUTION	INVESTISATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT ANT
SPECTRUM ALLOCATION STRATEGIES FOR COMMUNIC	COMMUNICATION NETWORKS		27,07,63	A A S & M B IN	195,000
California Institute of Technology	McEliece	Robert	\$111,710	104-MN-66	895.000
ON NETWORK COMPLEXITY OF LARGE FUNCTION APPROXIMATING NEURAL	TION APPROXIMATING NEURAL		N 36	HEAAGGES	
NETWORKS AND APPLICATIONS Rensselaer Polytechnic Institute	11	Chuanyi	\$138,179	80 y - WN - 86	
EVOLVING VLSI NEUROMORPHIC SYSTEMS FOR VISU	FOR VISUAL MOTION PROCESSING		N 36	HEAGO	
Univ of Delemane	Elias	John	\$327,746	604-EX-E6	
ALGORITHMS FOR DIGITAL MICRO-WAVE RECEIVERS	ECEIVERS & OPTIMAL SYSTEM		R 24	Z 9907	\$45,797
IDENTIFICATION Wright State University	Sham	Arneb	\$93,451	93-MN-610	\$93,451
FIXED ORDER CONTROL DESIGN AND IMPLEMENTATI	EMENTATION		N 36	JACOBS	
Purdue University	Skelton	• α	\$459,486	93-NH-411	
NOKLINEAR DISTRIBUTED ADAPTIVE CONTROL	ROL OF HIGH-PERFORMANCE		N 45	JACOBS	
AERCSPACE PLANES Oregon State University	rettox	Ronald	\$308°078	93-NM-412	
ION OF THE CONTINUOUS	SPECTRUM FOR PLANAR CPEN-30UNDARY		36 30 700	77 E	
MAVEGUIDES Michigan State University	Nyauist	Dennis	\$258,973	93-NY-413	
TURBULENCE, MIXING AND CONVECTION			N 36	NACHMAN	
Cornell University	erttic	Eric	\$113,231	93-KK-414	
ALGENTALD AND GEOWETRIC METHODS IN SIGNAL	SIGNAL PROCESSING, COMPUTER		\$0 00 00 00 00 00 00 00 00 00 00 00 00 0	4 000	\$46,164
VISIGN AND AUTOMATIC TARGET RECOGNITION Univ of Nabraska	TICK Smattachorya	r tour L d	\$141,518	93-NA-415	\$141,618

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PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

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firte rate (Cont.)	TYPE/MONTHS RECEIVED ANDUNT	STATUS PROGRAM MANAGER PROPOSAL B	INITIATE START DATE TOT AM
INVESTIGATION INVESTIGATION			
ANALYSIS OF MATHEMATICAL MODELS FOR SURFACE FINISHING	N 24 03/08/93	NACHHAN	
Univ of Pittsburgh	\$306,338	93~NR-416	
IABGE-SCALE OPTIMIZATION METHODS FOR MOLECULAR CMEMISTRY PROBLEMS	N 36 03/08/93	GLASSMAN	\$162,184
Unix of Colorado Robert	\$523,901	93-NM-417	\$21¢*3/8
NEW COMPUTATIONAL METHODS FOR IDENTIFYING EXTREME POINTS OF CONVEX	N 24 03/08/93	GLASSMAN	
NULLS Southern Methodist University Helgason Richard	119,167	93-NN-418	
TERRETAGE TROPAGE TO THE TRANSPORT OF TH	N 12	2 4 7 1 4	\$27,000
CRACK PROPAGATION IN LINEAR & NONLINEAR STAGOSTON	\$27,000	93-NN-619	\$27,000
Texas A and I Research Foundation			•
MULTIDIMENSIONAL PROBLEMS IN DYNAMIC PLASTICITY	24 34 34 34 34 34 34 34 34 34 34 34 34 34	A NACHMAN 93-NM-420	\$10.000 01/10/93 \$10.000
Morth Carolina State University Shearer Michael			
MULTIDIMENSIONAL PAJBLEMS IN DYNAMIC PLASTICITY	N N N N N N N N N N N N N N N N N N N	NACHMAN 01-NM-423	\$75,000 01/10/93 \$75,000
Juke University David	non*c/s		
HULTIDIMENSIONAL PROBLEMS IN DYNAMIC PLASTICITY	12 04/08/93	A NACHMAN	\$15,000 01/10/93 \$15,000
State University of New York Bruce	\$15,000	777-144-57	
NUNCALCAL METHODS FOR STIFF DIFFERENTIAL EQUATIONS, 7 JOSEPHSON IN	8 12 25 12	NACHAN	\$6,582 61/10/93 \$6,582
TERFERONATER ECUATIONS Int'l Cusiness Macrines Corp		574-NN-56	
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	\$16,640	93-NM-424	118,640
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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED Amount	STATUS PROGRAM MAMAGER PROPOSAL #	INITIATE START DATE TOT AMT
AVAILABILITY/RELIABILITY MODELING OF REAL TIME FAUL' INTEGRATED HARDWARE AND SOFTWARE REPAIRABLE SYSTEMS Univ of Arizona	ME FAULT TOLERANT Systems Dictrich	Duane	N 36 09/08/93 \$512,900	SUDDARTH 93-NM-425	
BREAKING INTRACTABILITY, SOFTWARE, SYSTEM IDENTI Implementation testing Columbia University	IDSNIIFICATION AND Traub	;	N 10/08/93 \$449,278	JACOBS 93-NM-426	
PARALLEL MULTI-SCALE ALGORITHMS AND APPLICATION TO COMBUSTION Turbulence Princeton University	TO COMBUSTION AND Karniedakis	George	N 10/08/93 \$233,520	JACOSS 93-NM-427	
PARALLEL MULTI-SCALE ALGORITHMS AND APPLICATIONS Turbulence Univ of North Cerolina	IONS TO COMBUSTION AND	He i	N 12/08/93 5226,916	JACOB S 93-NM-428	
INVARIANT METHODS FOR FUSING PHOTOGAPHIC WITH SA Lockheed Missiles & Space Co Inc	SAR IMAGES Barrett		4 13/08/93 \$480,000	A Maksmam 93-nm-429	\$100,000 30/11/93 \$480,000
(HBCU/AI FY92/93) A CLUSTER WCRKSTATION FACILITY FOR COMPUTER SCIENCE Gueens College Brown	FOR RESEARCH IN Brown	Theordorm	36 15/08/93 \$226,000	А Nасниан 93-NM-430	\$226,000 01/09/93 \$226,000
CENTER FOR SCIENTIFIC VISUALIZATION Central State University	Simmons	Gloria	16/03/93 \$297,000	A Nachman 93-nm-431	\$297,000 30/09/93 \$297,000
39 CCLLAPSE FHEOMENA IN DISPERSIVE MONLINEAR MED A CPITICUE OF ENVELOPE MODGLS Univ of Arizona	MEDIA: Newell	- ₹	N 16/03/93 \$265,022	A Nachman 93-nm-432	\$119,921 01/11/93 \$365,022
MISHER-CROSE CYCLOSTATIONARITY IN COMMUNICATIONS AND SIGNALS INTELLIGENCE Mishion Research Corp	S AND SIGNALS Spooner	Ched	36 16/02/93 \$277 ₈ 705	SJOSREN 93-NM-433	

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START DATE INITIATE TOT ANT PROGRAM MANAGER PROPOSAL 0 GLASSRAN 93-NK-434 STATUS TYPE/MONTHS 18/08/93 N 36 18/08/93 RECEIVED 36 AMOUNT Arunabha ON OFTIMAL INTEGRAL SOLUTIONOF LIMEAR PROGRAMS & ITS APPLICATIONS IN SATELLITE SCHEDULING & OTHER PROBLEMS Sen Arizona State University INVESTIGATOR TITLE (CONT.) NCITUTITION

GLASSHAN 93-NM-440 JACOBS 93-NM-439 SUDDARTH 93-NM-438 93-NM-435 93-NM-436 SJOGREN 93-NM-437 SJOGREN SACOBS N 24 19/08/93 N 36 19/08/93 N 12 19/08/93 \$111,492 N 36 18/08/93 \$39,746 \$270,000 \$95,483 19/08/93 \$406,758 J. William Jianeing Richard Herbert Rader DEVELOPMENT OF A MODULAR & PORTABLE 3 DIMENSIONAL DEFORMABLE GRID ELECTROMAGNETIC PARTICLE-FILLED CODE FOR HIGH PERFORMANCE.... California Instituti of Technology DESIGN OF ROBUST CONTROLLERS-FREQUENCY DOMAIN METHODS & THEIR NEW COMPUTATIONAL METHODS FOR DIFFICULT OPTIMIZATION PROBLEMS Ebrahimi Serfozo Tao NEURAL NETWORK CONTROL WITH UNSUPERVISED LEARNING Georgia Tech Research Corporation FINITE POPULATIONS RELIABILITY Univ of California, San Diego STUCHASTIC NETWORK PROCESSES South Carolina State College Northern Illinois University HONLINEAR EXTENSIONS

\$39,746 01/11/93

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SONE HELE SHAW PROGLEMS ASSOCIATED WITH INJECTION MOLDING

City Univ of Kes York Asch Foundation

Robert Gilbert Univ of Delamine

93-NM-442 NACHMAN 20/08/93 \$221,938

NACHRAN 93-NM-441

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\$116,680

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REPORT DATE 10/08/93 PROPOSAL STATUS REPOR

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TITLE TONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT ANT
MORKSHOP ON BAYESIAN STATISTICS IN SCIENCE & TE	TECHNOLOGY		N 09	ASJOGREM	\$9,900
Carnegia-Mellon University	X	Robert	006.68	93-NN-443	006 68
A MORKSHOP ON CONTROL OF DISCRETE EVENT SYSTEMS			N 12	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	\$37,917
George Mason University	Levis	Alexander	\$37,977	777-E6	\$37,917
(AASER193) WEIL TRANSFORM AND ERROR CORRECTING CODES	CODES		N 36	4 30 5	\$38,161
City College - CUMY	Auslander	Louis	\$115,067	93-NN-445	\$38,161
OPTIMAL INSPECTION SCHEDULE FOR CRITICAL PARTS	OF AIRCRAFT		12	2 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Mortheastern University	Melachrinoudis	čeanuel	\$144,396	93-NM-446	
ALGEBRAIC & GEOMETRIC METHODS IN SIGNAL PROCES. & AUTOMATIC TARGET RECOGNITION Univ of Nebraska	PROCESSING COMPUTER VISION Bhattacharya	Prabir	N 36 01/09/93 \$141,616	SJOGREN 93-NM-447	
DSCULANT			9 m	3 4 6 6	
Univ of Florida	Taylor	De Tir	\$281,826	844-XX-E6	
C PARAMETERIZATION PROZLEM FOR	MECHANISMS WITH LODP		X 400000	× 60 4 5	
Torngoot Honeywell Inc	Cloersea	Michael	\$241,772	644-MN-E6	
STUDY OF WAVE PROPAGATION IN RANDOM MEDIA			96	2 2 3 3 4 2	
nocard University	3111	Tejper	\$234,154	CS+-EX-ES	
LINST SQUARES COMPUTATIONS IN IMAGING AND RELA	RELATED PROSEEMS		36 30 7 10	A A A A A A A A A A A A A A A A A A A	
dake Forest University	5138805	Robert	\$174,629	154-12-E6	

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PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES REPORT DATE 10/38/93

TITLE (COMI.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS Réceived Amount	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT ANT
INTEGRASLE AND CHAUTIC MOTION OF A SOLID BODY	ODY THROUGH A FLUID		36 N	2 4 4 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Univ of Illinois	Aref	Hassan	\$135,000	93-NN-452	
NUMERICAL SOLUTION OF THE HIGH FREQUENCY ASYMPTOTIC FOR HYPERBOLIC	SYMPTOTIC FOR HYPERBOLIC		N 27	1	
EQUATIONS Univ of California, Los Angeles	Osher	Stanley	\$538°854	NACATAN 93-NM-453	
COMPUTATIONAL MOCELS OF HUMAN LEARNING WITH	H INSTRUCTIONAL		38	₹ 1	288 988
RELEVANCE Stanford University	Milsson	N11s	\$310,045	93-NN-654	\$310,045
COMPUTATIONAL & MATHEMATICAL INVESTIGATION	IN OPTIMIZATION		96	3	
Cornell University	Todd	Michael	\$337 ₆ 487	6LA 5.3 M.M. 4 5.5	
ADAPTIVE SENSORY-HOTOR PLANNING SY HUMANS (E MACHINES		\$6 80 80 80 80 80 80 80 80 80 80 80 80 80		
3oston University	Grossberg	Stephen	15/03/25	93-KX-69	
MODELING AND DESISN OF HIGH PRESSURE CRYSTAL	AL GROWTH PROCESSE:		N 12		\$84,768
State University of New York	Prasad	Visheanath	\$84°768	93-NN-457	894,768
NEXT GENERATION SOLID MODELERS FOR ELECTRONI	NIC PROTOTYPING		2 12	a	\$79,542
Univ of Michigan	Jutta	Oebasisn	14/09/93 \$103,556	6LASSAAN 93-NM-4 SB	879,542
CLUSED FORM 2D ANSLE ESTIMATION WITH CIRCULA Lang/Sea Tactical Mobile Communications & Su Pursur Research Foundation	LAR ARRAYS/APERTURES FOR Surveillance Radar Zoltomski	Hichael	36 1409/93 8160/21	SJOGREN 53-NR-459	
SONDLUMINESCENCE IN THE HUMAN SOLY			₩ 6 6 7	3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Univ of California, Los Angeles	2052015	Paul	14/09/93	NACHTAN 93-NM-460	

INITIATE START DATE \$75,000 01/10/93 \$75,000 01/12/93 \$100,000 \$88,349 01/12/93 \$155,822 TOT AMT 10 PROGRAM MANAGER PROPOSAL # GLASSHAN 93-NM-463 PAGE SJOGREN 93-NM-461 93-NM-462 93-NM-66 93-NN-465 NACHHAN 93-NM-466 STATUS SUDDARTH NACHMAN SJOGREN TYPE/MONTHS N 36 14/09/93 N 36 15/09/93 N 24 21/09/93 N 12 22/09/93 \$75,000 RECEIVED \$331,200 \$200,000 22/09/93 \$359,300 16/09/93 \$407,915 \$155,822 AMOUNT PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES Anthony Carmine Gordon Sumit Aura INCORPORATING PERSISTENCE IN LARGE-SCALE OPTIMIZATION MODELS INVESTIBATOR FITLE #1 FERRITE PATCH ANTENNAS TITLE #2 MATERIAL SPECTROSCOPY USING PICO-SECOND PULSES Mortheastern University Devaney Bradley Kung 6 an z Roy DESIGN & EVALUATION OF SCALABLE OPTICAL NETWORKS STUDIES OF MAVE PROPAGATION IN RANDOM MEDIA FLCW-CONTROLLED, MULTICASTING GIGABIT LANS ADVANCED MONTE CARLO TECHNIQUES Naval Post Graduate .chool Devaney (A.J.) Associates REPORT DATE 1C/38/93 Univ of Massachusetts Univ of Pennsylvania **Harverd University** TITLE TITLE (CONT.) INSTITUTION

695-NN-26 93-NM-468 93-NA-467 NACHMAN NACHMAN JACOBS N 36 29/09/93 N 36 29/09/93 \$135,582 29/09/93 \$270,168 1363,550 Dimetrios Alexensor Joseph SPECTRAL PROPERTIES OF PERIODIC AND DISORDERED DIELECTRIC AND Papaseors13n MATHEMATICAL ASPECTS OF ATPENSOUTC BUCKDAFY LAYERS AND USTS Flaherty Rensselaer Polytechnic Institute City University of New York Jnsv of North Carolina ACCUSTIC MEDIA

ADAPTIVE AND PARALLEL COMPUTATIONAL TECHNIQUES IN MATERIALS

REPORT DATE 10/08/93	PROPOSAL STATUS REPORT (1 JUL 93 - 30 SEP 93) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH GIRELTORATE OF MATHEMATICAL & INFORMATION SCIENCES	3 - 30 SEP 93) ESEARCH FORMATION SCIENCES		PAGE 11	
3	INVESTIGATOR		TYPE/RONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
INSILIULION AN ADAPTIVE FIMITE ELEMENT METHCO FOR UNSTEADY ATTACK AERODYNAMICS Rensselaer Polytechnic Institute	R UNSTEADY MIGH ANGLES OF Rusak	2v1	24 29/09/93 \$150,540	J4C08S 93-MM-470	
COMPUTATIONAL METHODS FOR ELECTROMAGNETIC SCATTERING AND Structural phase transitions Carnegie-Mellon University	NETIC SCATTERING AND Nicolaides	o <u>r</u>	N 36 29/09/93 \$444,243	JACOSS 93-NM-471	
ASYMPTOTIC THEORY OF REFLECTION & TRANSMISSION OF A PULSED ELECTROMEGNETIC SEAM FIELD AT A PLANAR INTERFACE SEPARATING 2 DISP M Univ of Verbont	RANSMISSION OF A PULSED ELEC- Interface separating 2 disp med Oughstun	Kert	36 29/09/93 \$273,197	NАСНИАN 93-им-472	
EFFICIENT AND FAULT-TOLERANT INTERPROCESSOR COMM Morphole-routed K-ARY N-CUBE AND N-WESH METWORKS Ohio State Univ Research Foundation	ROCESSOR COMMUNICATION IN Mesh metworks Ozgunet	Fuzun	25 05 05 05 05 05 05 05 05 05 05 05 05 05	SUDDARTH 93-nm-673	
COMPUTING SCIENCE AND STATISTICS: SYMPOSIUM Interface Foundation of North America	TMPOSIUM ON THE INTERFACE	John	N 12 30/09/93 \$50,325	SJOGREN 93-NM-474	
APPLIED MATHEMATICAL PROBLEMS IN MODERN ELECTROMASNETICS New Jersey Institute of Technology Kriegsma	DERN ELECTROMASNETICS Kriegsmann	Gragory	36 30/09/93 \$285.	**************************************	
NEURAL NETHORK TRAINING David Sarnoff Resaarch Center	Pearson	L to the	36 30/09/93 \$421,303	SUDDARTH 93-NM-676	

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93 - 30 SEP 93) RESEARCH EXTERNAL LAS PROPOSALS REPORT DA

INVESTIGATOR AIR FORCE INTERNATIONAL ASSESSMENT SUPPORT PROGRAM TITLE TITLE (CONT.) INSTITUTION

INITIATE START DATE TOT AMT \$130,000 01/01/94 \$750,000 STATUS PROGRAM MANAGER PROPOSAL # CARRANZA 93-EX-001 TYPE/MONTHS RECEIVED AMOUNT N 31 17/08/93 \$750,000

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